

# Nathan Joseph Savas

✉nathan.savas@student.csulb.edu | 🌐nsavas | 🌐nathansavas | 🌐nsavas.github.io

## Education

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### California State University, Long Beach

*Exp. Graduation: May 2021*

Bachelors (B.S) In Computer Science

*Concentration GPA: 3.67*

**Relevant Coursework:** Data Structures & Algorithms, Object Oriented Application Development, Database Fundamentals, Computer Architecture, Intro to Software Engineering, Multivariable Calculus

## Experience

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### Siemens PLM Software

*Cypress, CA*

Software Development Intern

*May 2019 - Present*

- Worked on the NX CAD cloud team to develop a design validation tool that consolidates design information through user configured reports
- Created a web application using the NX JavaScript SDK to run reports and organize results in a tree table, providing accurate and efficient design assessment
- Designed a UI to interact with CAD designs within a 3D viewer and easily navigate through results

### Perfect Score Academy

*Cypress, CA*

Computer Science Instructor

*March 2018 - May 2019*

- Designed and delivered a 12-week computer science course for a class of 15 junior high and high school students to promote computer science education within the local community
- Analyzed and debugged code (Python) written by students and provided feedback
- Worked closely with students to develop in class projects and teach fundamental programming concepts

## Projects

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### US City Chemical Release Visualizer

JavaScript, PostgreSQL

- Leading a team of 3 in creating a web application with React.js to visualize over 30 years of EPA chemical release data (~5GB) within a given US city
- Implemented a RESTful API to easily create queries from a PostgreSQL database
- Used the Mapbox JS SDK to render results in a map interface and React-Vis to create insightful visualizations for the user to explore

### Spot A Bubble

JavaScript

- Developed a web application with React.js to allow Spotify users to visualize their top genres and artists
- Used JavaScript and D3.js to render an interactive bubble chart that creates a bubble for each genre whose radius is scaled by the number of associated artists

## Skills

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**Programming Languages:** Java, JavaScript, Python, C++, SQL, HTML, CSS, Assembly

**Frameworks/Tools:** Git, Node, React, React-Vis, D3, PostgreSQL, Matplotlib, Pandas, Numpy, Sci-Kit Learn, Jupyter Notebooks, Visual Studio, Visual Studio Code, Eclipse